

Microsoft Systems Architecture

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2003



THIRD ANNUAL

Microsoft® **STRATEGIC ARCHITECT FORUM**

for Partners

Agenda

- ❖ The Problem Space
- ❖ Microsoft's Architectural Approach
- ❖ Microsoft Systems Architecture (MSA)
 - ◆ Why, what, how, who...
 - ◆ But, what if...
- ❖ MSA 2.0
- ❖ Review



MSA 2.0

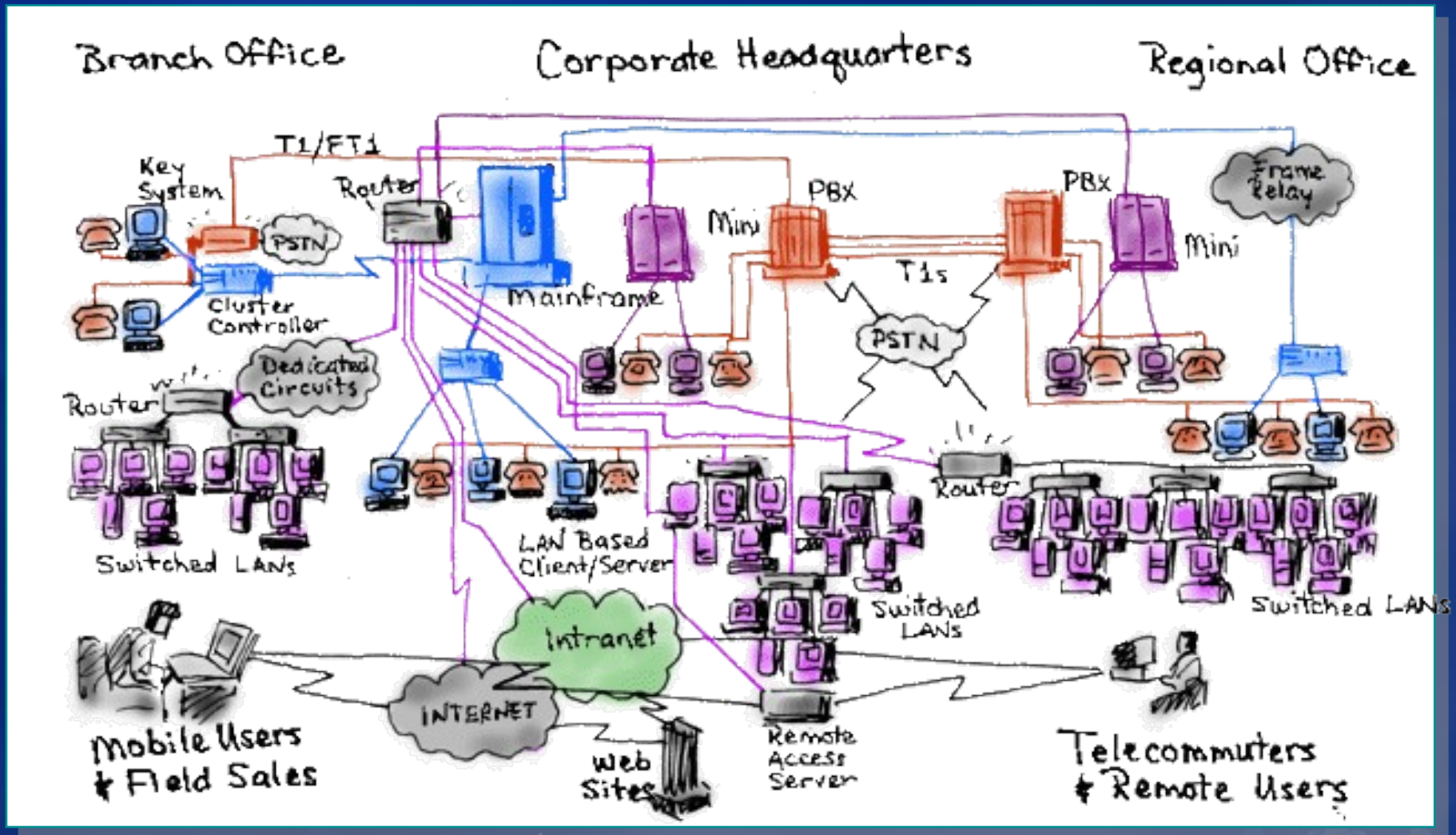


Enterprise Problems

- ❖ IT Not Aligned with Enterprise Business Objectives
- ❖ Can't Make Quick and High-Confidence Decisions Due to a Lack of Enterprise Information
- ❖ 75% of IT Projects Considered Not Successful;
50% of Project Considered Churn Time
- ❖ Ad-hoc and Informal Growth of Applications and Servers Leads to a Proliferation of Custom Solutions



Technology Problems

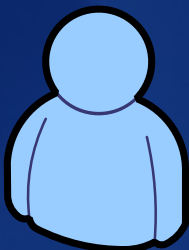


...Unmanageable, Slow, and Expensive to Adapt

Microsoft Systems Architecture (MSA) Defined

**“Technology Architecture for the
Enterprise”**

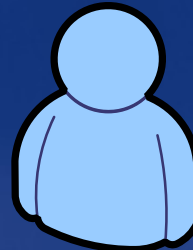
*“MSA is enterprise-class architectural
blueprints and implementation guidance
that are tested and proven in the lab
with hardware and software partners”*



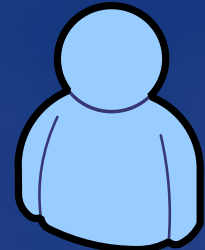
**Systems
Architect**



**Systems
Designer**

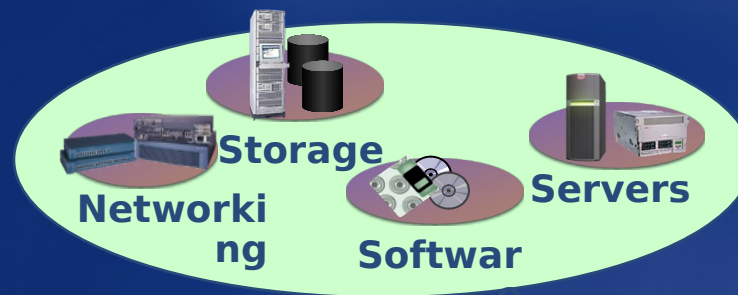


IT Implementer



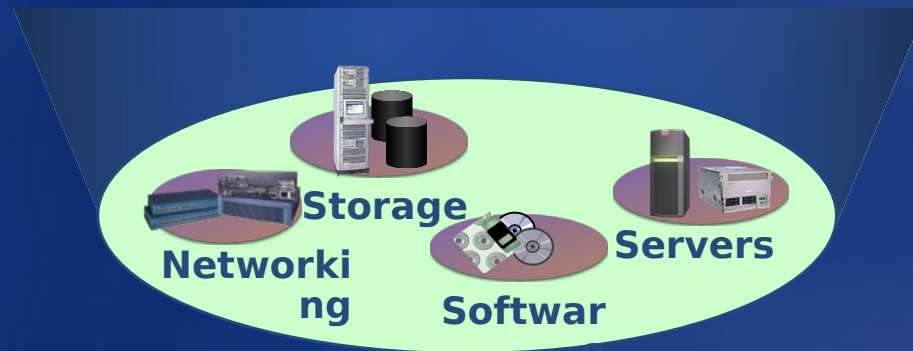
**Application Architect
and Developer**

MSA Approach



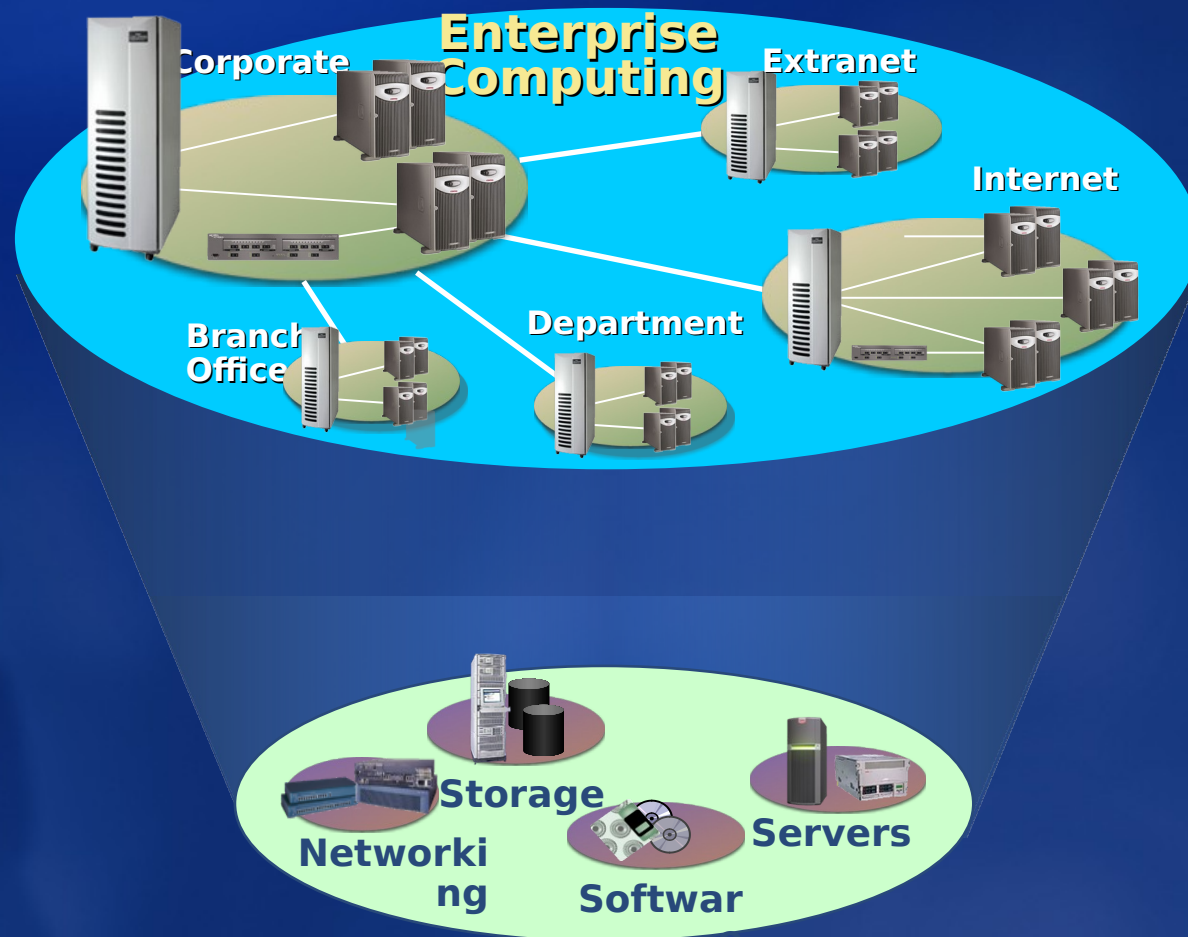
MSA incorporates all technologies required to build corporate data centers

MSA Approach



Together with our partners, we build and test data center configurations in our labs and optimize them for Microsoft Windows®

MSA Approach



We document these configurations both as entire data centers and as modules, supporting specific computing functions



MSA Design Goals

Scalability **Scale Up and Scale Out**

Security **Defense-in-Depth Strategy**

Availability **No Single Point of Failure**

Reliability **Consistent Behavior**

Supportability **SPOC from Microsoft and Partners**

Deployment **Rapid Time to Deploy**

Manageability **Manageable End-to-End**

Standardized **Common Infrastructure**

Integrated **Works Better Together**



Why MSA?

- ❖ We all have a need for standardization to help with integrating and deploying Microsoft platform-based infrastructure
- ❖ Seed systems integrators and partners with guidance, making it easier to implement Microsoft platform-based infrastructure and solutions
- ❖ Reduce risk, cost, and time-to-market for partners and customers
- ❖ Improve Microsoft product integration and quality



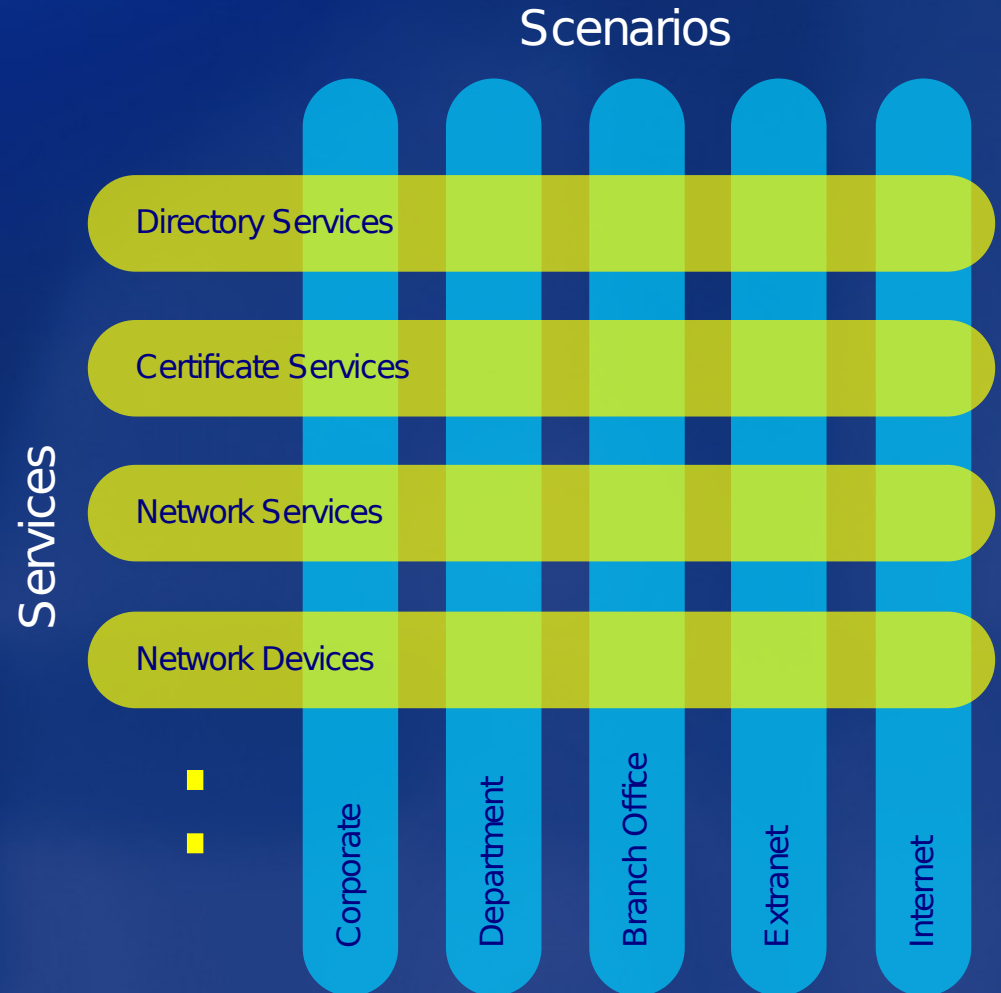
MSA Deliverables

- ❖ Reference Blueprints
 - ◆ Architectural and service blueprints
- ❖ Implementation Guidance
 - ◆ Proof-of-concept configurations
 - ◆ Planning guides
 - ◆ Build guides—including testing and deployment details
 - ◆ Operational considerations
- ❖ Partner Development Validation Criteria and Tools
 - ◆ Documentation, test requirements, and support criteria



MSA 2.0 Guidance

- ❖ Scenario Focus in Terms of Unique Requirements
- ❖ Service Focus for More Intuitive Consumption
- ❖ Reference and Prescriptive



MSA Partners



SIEMENS



EMC²



Partner-Led Prescriptive Solutions

❖ Internet Data Center

- ◆ Dell, EMC2, Brocade, Nortel, Avanade
- ◆ Unisys, EMC2, Brocade, Nortel, Avanade
- ◆ NEC Japan (Japan/Far East market)

❖ Enterprise Data Center

- ◆ Dell, EMC2, Brocade, CommVault, and Nortel
- ◆ Unisys, EMC2, Brocade, and Nortel
- ◆ Fujitsu/Siemens (EMEA market)

Microsoft®
Systems Architecture

Qualified



Using MSA

❖ Baseline for Customization

- ◆ MSA is a jumpstart to help meet unique customer requirements
- ◆ Customization is expected and should be done as part of a systems integration engagement
- ◆ Examples:
 - ◆ Scaling the tiers: number of Web servers, number of database servers
 - ◆ Firewall rules based on services and protocols
 - ◆ Integration into existing environments

❖ Standardization

- ◆ Blueprint for change
- ◆ Contribution to Standard Operating Environment
 - ◆ SOE, COE, etc.—a “contract” between business and infrastructure

MSA 2.0 Logical Architecture

Microsoft

Systems Architecture for the Enterprise v2.0

Corporate and Satellite Branch Office Scenarios

Security Zones



MSA 2.0 Logical Architecture

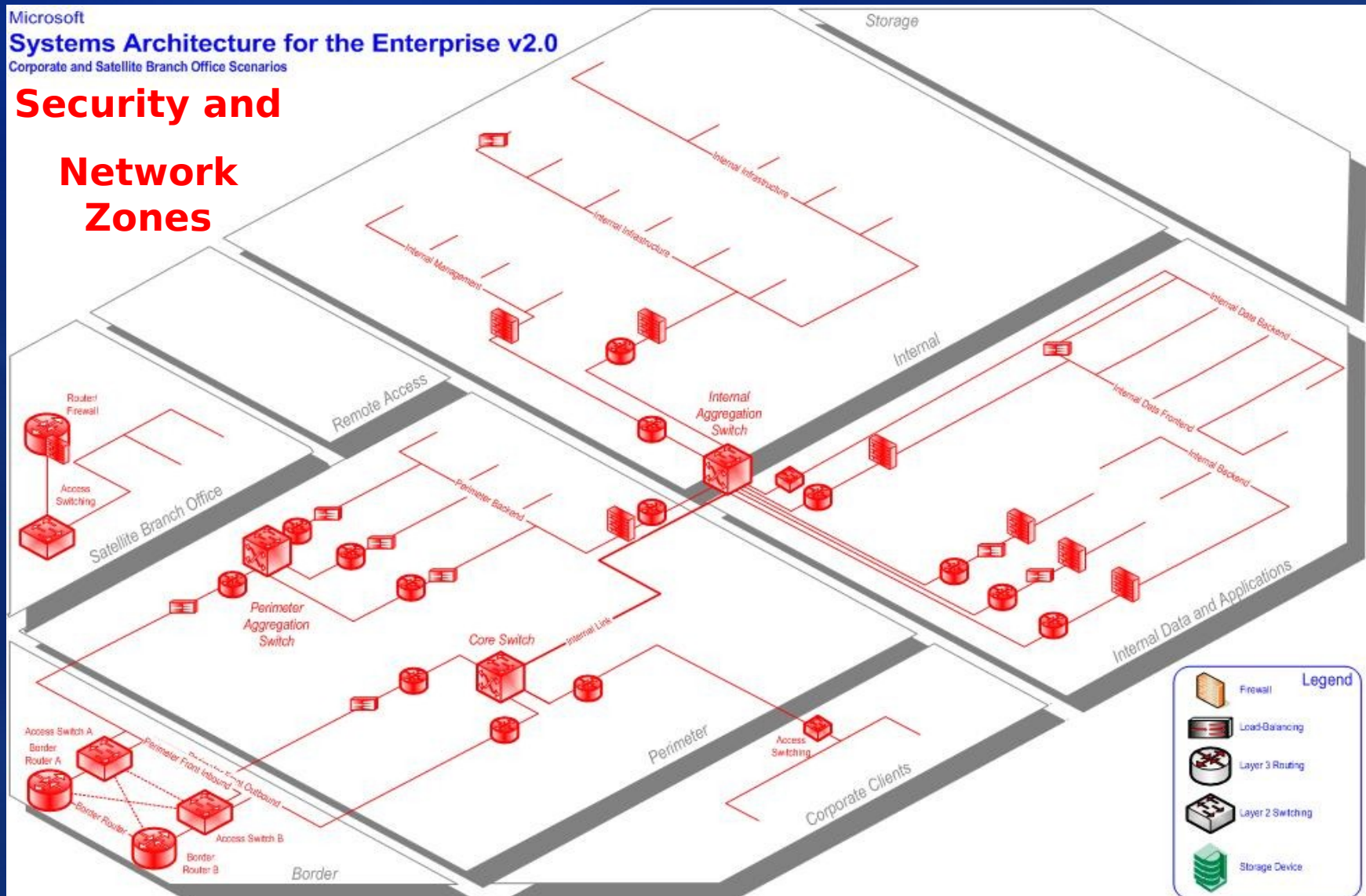
Microsoft

Systems Architecture for the Enterprise v2.0

Corporate and Satellite Branch Office Scenarios

Security and

Network Zones



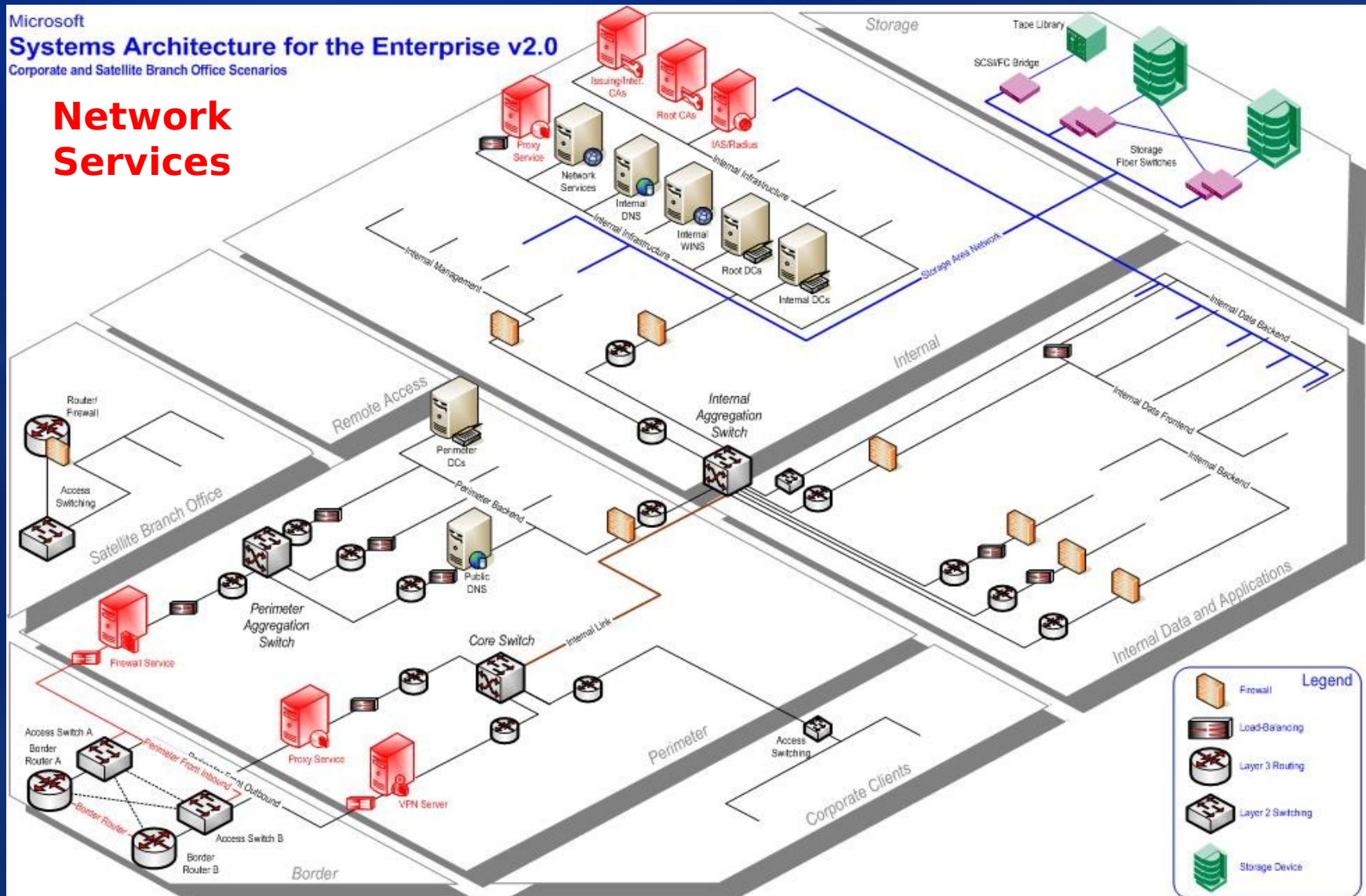
MSA 2.0 Logical Architecture

Microsoft

Systems Architecture for the Enterprise v2.0

Corporate and Satellite Branch Office Scenarios

Network Services



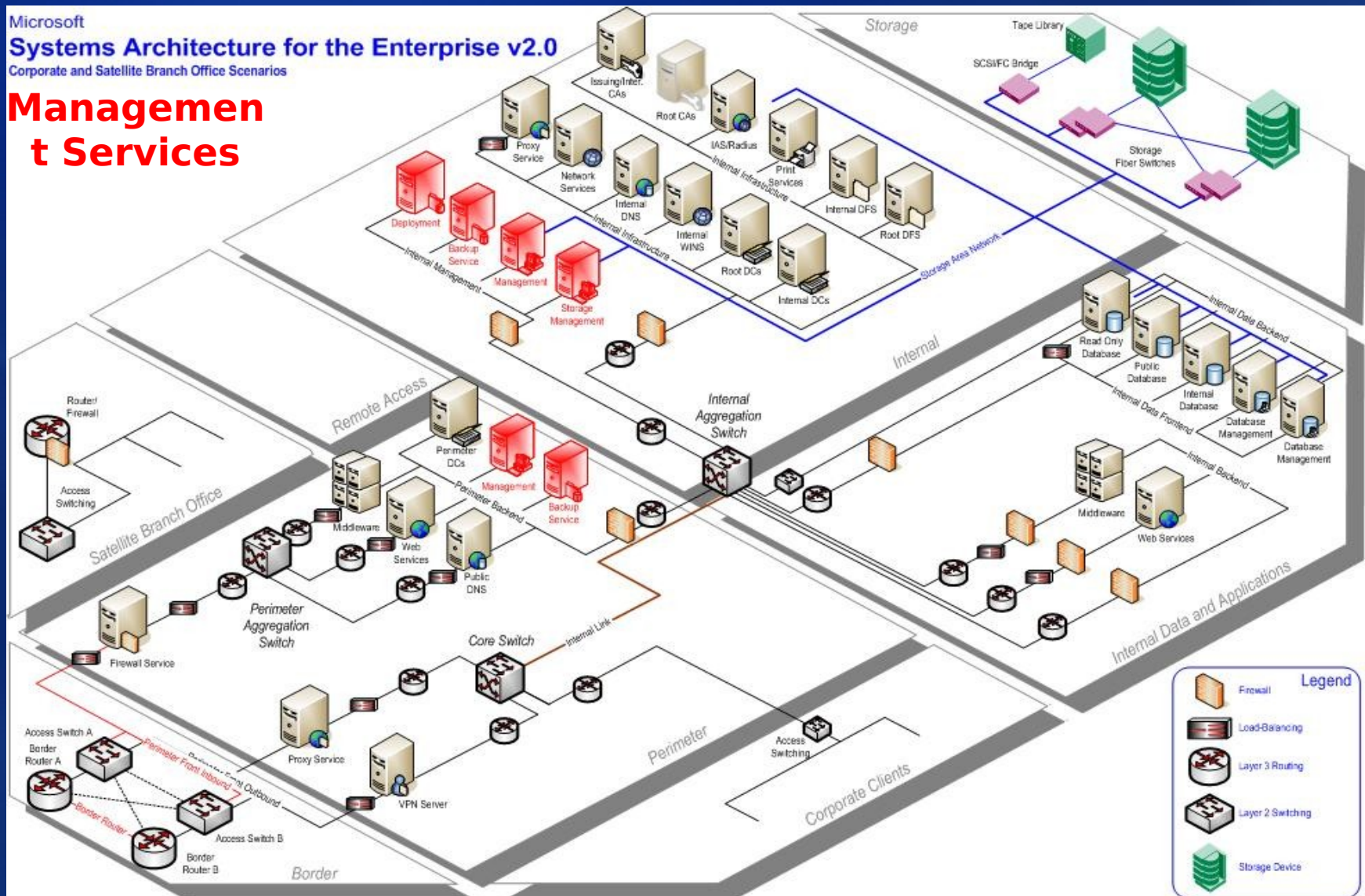
MSA 2.0 Logical Architecture

Microsoft

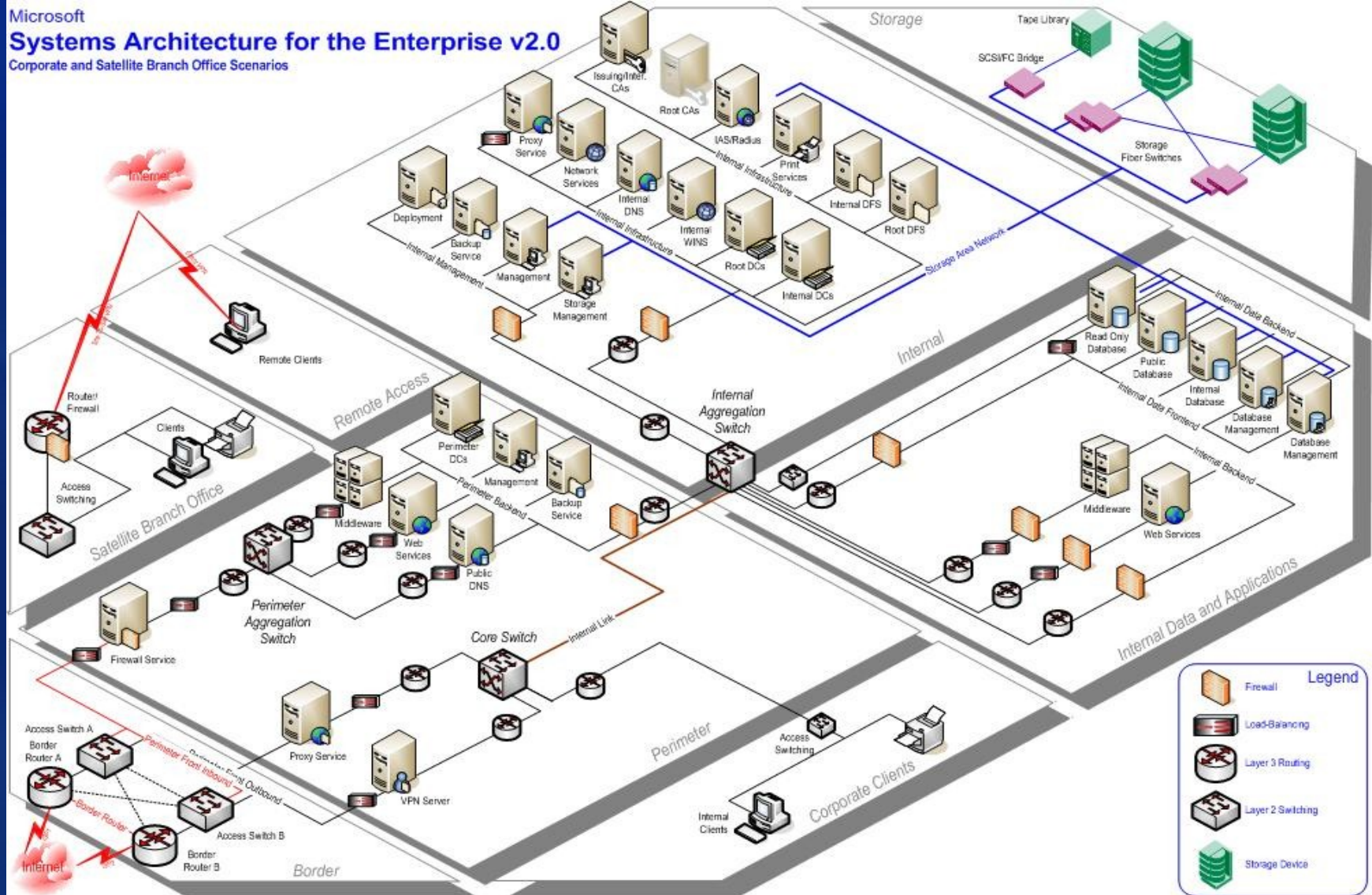
Systems Architecture for the Enterprise v2.0

Corporate and Satellite Branch Office Scenarios

Management Services



MSA 2.0 Logical Architecture



Review

- ❖ MSA is providing tested and proven technology architecture guidance on currently available products
- ❖ MSA is a great blueprint for developing your specific “standardized” architecture
- ❖ MSA will jumpstart your IT service implementation projects
- ❖ MSA 2.0, based on Microsoft Windows Server 2003™, is available now
- ❖ Feedback: msafdbk@microsoft.com
- ❖ Me: johndaw@microsoft.com



Questions?



Demo

❖ Microsoft System Architecture CD



Questions?



Demo

❖ Storage Devices Documentation



Questions?





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Strategic Architect Forum